



## Discipline

### DEFINITION

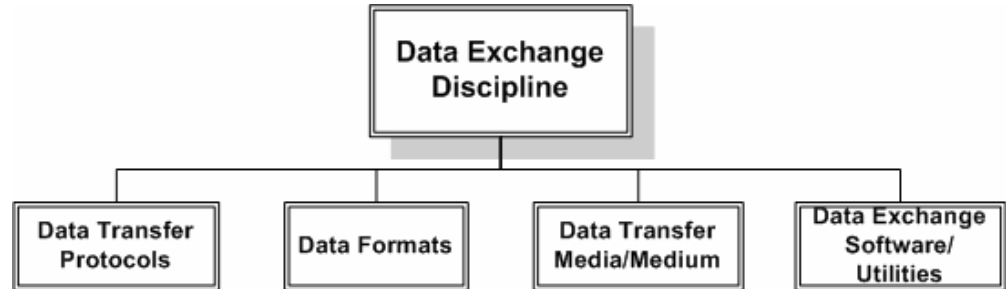
<i>Name</i>	Data Exchange
<i>Description</i>	<p>The Data Exchange Discipline defines those components and specifications necessary to allow consistent definition, markup, presentation, and exchange of data between government entities and the citizenry.</p> <p>Data exchanges translate data from a sender's system into a specified format; conversely, they also translate the data from the specified format into the receiver's application/system. Data Exchange can be understood in terms of input and output, end-user and application, public and private.</p>
<i>Rationale</i>	<p>There is a growing business need to share data across agencies to provide state services in a more efficient and simplified manner to the citizenry. A data exchange strategy enables the state to retain its investments in existing legacy systems, and provides the foundation for sharing data through common or preferred methods.</p>
<i>Benefits</i>	<ul style="list-style-type: none"><li>• Reduced development and information delivery time through the use of common data exchange methods (e.g., common data formats, mediums, and protocols).</li><li>• Improves the utilization of information resources and avoids unnecessary duplication and incompatibilities in the collection, processing and dissemination of data.</li><li>• The use of data exchange standards can result in improved reliability of data.</li><li>• Improved portability of data.</li></ul>

### BOUNDARY

<i>Boundary Limit Statement</i>	<p>The Data Exchange Discipline includes the following preferred areas of data exchange across the Missouri enterprise:</p> <ul style="list-style-type: none"><li>○ Data Formats – includes composition formats, compression formats and encryption formats.</li><li>○ Data Transfer Media/Medium – includes the physical transport mechanisms used to deliver or receive the data within an exchange.</li><li>○ Data Transfer Protocols - includes the protocols used to transfer or package the 'data stream' within an exchange.</li><li>○ Data Transfer Software/Utilities – includes the tools that ship and or receive batch files between organizations and are necessary for the execution of the data-exchange. [Real-time data-exchange technologies are addressed in the Application Interoperability Discipline.]</li></ul> <p>Together these areas define the methods, tools, or technologies that may be used in the physical or virtual movement of the data from point A to point B.</p>
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The Data Exchange Discipline does not address user data entry or user data retrieval technologies (for example: user query and response).

The diagram below illustrates the Technology Areas associated with the Data Exchange Discipline:



### ASSOCIATED ARCHITECTURE LEVEL

*Specify the Domain Name*

Interoperability Domain

### CRITICAL REFERENCES

#### Related Domains/Disciplines

<input type="checkbox"/> Interface – Branding	<input type="checkbox"/> Interoperability – Data Exchange	<input type="checkbox"/> Systems Mgt – Business Continuity
<input type="checkbox"/> Interface – Access	<input checked="" type="checkbox"/> Interoperability – Application Interop,	<input type="checkbox"/> Security – Managerial Controls
<input type="checkbox"/> Interface – Accessibility	<input checked="" type="checkbox"/> Application – Application Engineering	<input checked="" type="checkbox"/> Security – Technical Controls
<input checked="" type="checkbox"/> Information – Knowledge Mgt	<input checked="" type="checkbox"/> Application – Electronic Collaboration	<input type="checkbox"/> Security – Operational Controls
<input checked="" type="checkbox"/> Information – Data Mgt	<input type="checkbox"/> Systems Mgt – Asset Mgt	<input type="checkbox"/> Privacy – Profiling
<input checked="" type="checkbox"/> Information – GIT	<input type="checkbox"/> Systems Mgt – Change Mgt	<input type="checkbox"/> Privacy – Personification
<input type="checkbox"/> Infrastructure – Network	<input type="checkbox"/> Systems Mgt – Console/Event Mgt	<input checked="" type="checkbox"/> Privacy – Privacy
<input checked="" type="checkbox"/> Infrastructure – Platform	<input type="checkbox"/> Systems Mgt – Help Desk/Problem Mgt	

#### Standards Organizations/Government Bodies

*List Standards Organizations*

International Standards Organization (ISO);  
IEEE Standards for Information Technology

*List Government Bodies*

#### Stakeholders/Roles

*List Stakeholders*

Software Engineering, Application Development; Operations

*List Roles*

Software Developers, Software Architects, DBAs, Technical Support,  
Console Operators

#### Discipline-specific Technology Trends

*List Discipline-specific  
Technology Trends*

*Technology Trend Source*

### ASSOCIATED COMPLIANCE COMPONENTS

*List Discipline-level  
Compliance Components*

Data Exchange Guidelines

## METHODOLOGIES

<i>List methodologies followed</i>	Reference Models: <ul style="list-style-type: none"><li>• TAFIM – Technical Architecture Framework for Information Management [Dept. of Defense, Defense Information Systems Agency]</li><li>• Federal Enterprise Architecture (FEA) – Technical Reference Model, Service Interface and Integration: Interoperability Area</li></ul>
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## DISCIPLINE DOCUMENTATION REQUIREMENTS

*Provide documentation requirements for this Discipline*

## ASSOCIATED TECHNOLOGY AREAS

<i>List the Technology Areas associated with this Discipline</i>	Data Formats; Data Transfer Media/Medium; Data Transfer Protocols; Data Transfer Software/Utilities
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## CURRENT STATUS

*Provide the Current Status*    ☐ *In Development*    ☐ *Under Review*    ☒ *Approved*    ☐ *Rejected*

## AUDIT TRAIL

<i>Creation Date</i>	11/05/2003	<i>Date Approved/Rejected</i>	4/13/04
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>		<i>Last Date Updated</i>	
<i>Reason for Update</i>			